Tightening tor	ques	Nm	(kpm)	
Thread connec	tion 5/8" - 18 UNF	15–18	(1.5-1.8)	
	3/4" — 16 UNF	14-28	(1.4-2.8)	
	7/8" – 14 UNF	29–37	(2.9-3.7)	
Conventional e	quipment			
1 Cleaning unit R 11		Augsburger Stra	e.g. made by Christof Fischer Augsburger Straße 289 7000 Stuttgart-60	
		Order no.: 835	3900 DB	
Scope of delive	ery: (mounted on cleaning unit)			
bead connec	1.6 m, 12 mm inside width with ction on both sides and coupling NF, 1 connection 45 ⁰ offset.			
PVC hose for nitrogen 1.5 m, 5 mm inside				
	quickly closing 7/16" UNF/hose			
grommet to	r reduction valve.			
Reduction r	nipples 3/4" x 7/8"	6012129		
Reduction nipples 3/4" x 3/4"		601-2103	601-2103	
? Reduction r	nipples 3/4" x 5/8"	601-2123		
? Reduction r	nipples 3/4" x 1"	628-2400		
2 Seals		628–2401		
	nipples 5/8" x 3/4"	628–2402		
	ection 3/4" x 5/8"	6012165		
	ection 3/4" x 7/8"	601-2166		
	container lock			
	g material for filter drier			
	rls can: 1 kg)	731—9000		
15-kg conta	iner, filled with R 11	808-3902		

Double open-end wrench 2 each

1/2 × 9/16", 5/8 × 3/4", 7/8 × 15/16", 1 × 1 1/8"

Note

Dirt or moisture (water) in air conditioning system may result in failure of system and considerable follow-up damage.

Failures in air conditioning system, particularly if refrigerant compressor is defective, e.g. by a blocking effect, will result in considerable contamination of system by burnt refrigerant oil or abrasives. Since there is a possibility that abrasives of refrigerant compressor may arrive in lines of air conditioning system, replace pipe line with hoses on refrigerant compressor in such a case.

If contamination of the air conditioning system is suspected or if parts of the air conditioning system have been stored in the open air for extended periods, clean entire air conditioning system according to extent of contamination.

If there is little contamination or moisture, blow out air conditioning system with nitrogen.

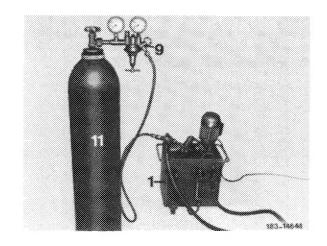
If the contamination is more pronounced, flush air conditioning system with R 11.

If cleaning of air conditioning system is required, always replace receiver dehydrator.

Cleaning with nitrogen

- 1 Drain air conditioning system (83-516).
- 2 Remove receiver dehydrator (83-520).
- 3 Unscrew hose lines on refrigerant compressor.

- 4 Connect tapping hose on reduction valve (9) of nitrogen bottle (11).
- 5 Blow out air conditioning system in two stages for approx. 2 minutes by means of tapping hose.
- a) from hose line receiver dehydrator evaporator to hose line evaporator compressor.
- b) from hose line refrigerant compressor condenser.

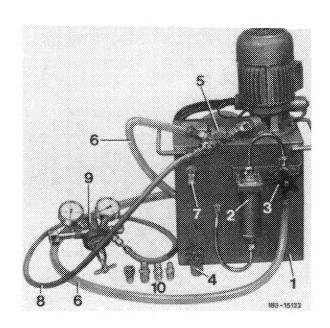


- 6 Install new receiver dehydrator. Then check oil level in refrigerant compressor (83–520).
- 7 Check sealing rings and connections on refrigerant compressor and moisten with cold-flowing oil.
- 8 Mount hose lines on refrigerant compressor or pipe line.
- 9 Evacuate air conditioning system, fill up and check for leaks.

Cleaning with R 11 cleaning unit

Note: The boiling temperature of the R 11 cleaner is at + 23.8° C. For this reason, store R 11 in cool place and keep container well closed.

R 11 in cleaning unit may evaporate through pressure relief valve (7) if its temperature is above 24° C. It is therefore recommended to return the contents of the cleaning unit to supply tank after flushing.

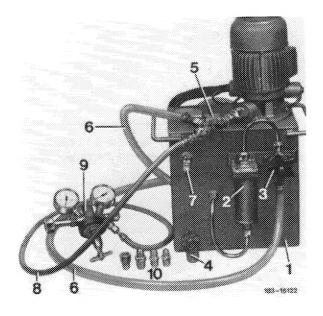


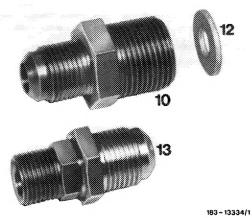
The R 11 cleaner can be used several times. As soon as the cleaner looks rather cloudy (showing up when flowing through PVC hoses (6), renew together with KC dry pearls in filter drier (2).

Attention!

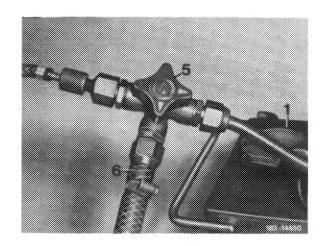
Do not breath R 11 gas in high concentration. Vent closed rooms after flushing.

- 10 Drain air conditioning system (83-516).
- 11 Disconnect all parts installed in refrigerant circuit such as expansion valve, receiver dehydrator and lines on refrigerant compressor.
- 12 Connect hose line from compressor to condenser with feed and return line and line connectors (10) (the hose line and the condenser are flushed first).





- 13 Set three-way valve (5) to passage, cleaning unit
- (1) PVC connecting hose (6).



- 14 Open shutoff valve (3) and engage flushing unit by inserting mains plug.
- 15 Disconnect cleaning unit and set three-way valve
 (4) to passage, pressure hose of nitrogen bottle PVC connecting hose.
- 16 Close shutoff valve (3) and set pressure on pressure gauge (9) to approx. 3 bar. Open shutoff valve on pressure gauge.
- 17 The flushing compound which is still in connected circuit is forced back into container of flushing unit (well visible through PVC hose).
- 18 Close valve on pressure gauge (9).
- 19 Disconnect flushing unit.
- 20 Also flush evaporator and hose line from evaporator to compressor or pipe line as well as pressure hose from receiver dehydrator to E-valve (item 12 to 19).
- 21 Install new receiver dehydrator and new expansion valve. Then check oil level in refrigerant compressor (83–520).
- 22 Check gasket and threads on all components and moisten with cold-flowing oil. Connect hose lines to refrigerant compressor.
- 23 Evacuate air conditioning system, fill up again and check for leaks and function.

